

Anjuman Islam Janjira Degree College of Science, Murud-Janjira

Institutional Best Practices

Best Practice-2

1. Title of the Practice- Innovation-Incubation-Research

2. Objectives of the practice-

Innovation-Incubation-Research is a facility to incubate or innovations to enable new ideas with research outcomes.

The objectives of this practice

1. To nurture innovations amongst faculty and students.
2. To gain knowledge with scientific temper.
3. To create research interest amongst faculty and students.
4. To impart basic science education in practical way.
5. To motivate students to join research field.
6. To cater to the needs of students and faculty members who are inclined towards research, innovation, and novel ideas.

3. The Context

Now every sector requires young graduates with creative thinking to develop and manufacture new products to address the challenges faced by the industry and society. To fulfill this requirement, this institute trying to mould the students to the expectations of the government. It's the duty of each higher educational institutes to provide Innovation- Incubation-Research facility. On the same ground this institute putting efforts to have research culture amongst the faculties and student of this institute. This institute provide different platforms for uplift of knowledge with scientific temper.

4. The Practice

The college has a separate Committee to run the practice effectively. All Head of Departments and faculty members run the various research oriented activities under the guidance of the committee. The main motto of this practice is to provide platform for students who is having innovative ideas, they can groom and explore it with help of mentor. Each faculty of the institute works as mentor under this practice. The mentor adopts students of this institute for further execution of the practice. After the adaption of teacher-student groups, a plan of action is formulated for the execution of the practice. The plan of action contains meetings between the mentor and mentees in each semester. Teachers of this institute work as mentor convey messages to adapted students about participation in various research oriented activities. Teachers and students of this institute collectively work on the selected research problem throughout the year. After completion of work on the desired research project, teacher and student collectively prepared the report of same work. The committee organizes scrutiny program for selection of best research project and suggesting them to participate in various events based on research atmospheres. The committee also provides platform to incubate students having innovative ideas by organizing different workshops and conferences. Every year national or international conferences organizes for to have student interaction with different delegates at different level. This institute also provides financial assistance to teachers and students for performance and participation in research oriented activities.

Efforts taken for implementation of this practice:

- 1) Avishkar Research Convention Participation in each academic year.
- 2) Organization of Theme based workshop on Save energy- Save environment in A.Y. 2018-19

- 3) Organization of International Webinar on "Role of Social Services in COVID-19 Situation" in A.Y. 2020-21
- 4) Organization of International e-Conference on "Post COVID-19 Situation" in A.Y. 2020-21
- 5) Organization of National Multidisciplinary Conference (Online) on "New Education Policy 2020 And Labour Laws" in A.Y. 2020-21
- 6) ISBN indexed Book published on Post COVID-19 situation - a review in A.Y. 2020-21
- 7) Organization of Webinar on Alternative Energy Sources, Biodiesel and Solid Waste Management in A.Y. 2021-22
- 8) Organization of National Level Workshop on Intellectual Property Rights Awareness in A.Y. 2021-22
- 9) Organization of International-E- Conference on Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT–2022)
- 10) Organization of Webinar on Alternative Energy Sources, Biodiesel and Solid Waste Management in A.Y. 2022-23
- 11) Organization of National Level Webinar on Research Project Making in A.Y. 2022-23
- 12) Organization of National Level Workshop on Intellectual Property Rights Awareness in A.Y. 2022-23
- 13) Organization of International-E- Conference on Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT–2023)
- 14) Participation of teachers along with students in research oriented activities
- 15) Financial support to faculties and students for research project and participation in research oriented activities in each academic year.

5. Evidence of Success: -

This institute along with different committees takes a lot of efforts for inculcation of research atmosphere to explore innovative ideas of students. The following mentions are the evidences of successful implementation of said practice.

- 1) Avishkar Research Convention Participation in each academic year and achievement.
- Year wise participation of student with teacher mentor in Avishkar research convention

Academic year	No. of research projects	Number of student participants	No. of mentors
2018-19	7	14	12
2019-20	6	7	16
2020-21	6	18	19
2021-22	29	59	19
2022-23	36	81	21

- 2) Organization of Theme based workshop on Save energy- Save environment in A.Y. 2018-19

Total Participant	25
College Teachers participant	01
College Student Participant	24
Chief Guest and Key Resource Personality	Dr. N. S. Lingayat, HOD, Electrical Dept., Dr. BATU, Lonere

3) Organization of International Webinar on "Role of Social Services in COVID-19 Situation" in A.Y. 2020-21

Total Participant	201
College Teachers participant	11
College Student Participant	105
Total Paper presentation	58
Chief Guest and Key Resource Personality	Dr. Atul Salunkhe
	State Liason Officer Maharashtra State
Other Dignitaries	1) Dr. Dilip Patil Director, DLLE University of Mumbai 2) Mr. Lion Rajesh Mehraa Past District Governor, Lions Clubs International
Presentation	Oral and Poster presentation.
List of Research Paper	Joined as Annexure-I
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

4) Organization of International e-Conference on "Post COVID-19 Situation" in A.Y. 2020-21

Total Participant	402
College Teachers participant	16
College Student Participant	15
Total Paper / Chapter presentation	49
Chief Guest and Key Resource Personality	Dr. Shivraj Hariram Nile Associate Professor, Division of Plant and Food Science, Zhejiang Chinese Medical University, Hangzhou, China
Other Dignitaries	Dr. Gaikwad Dattatraya Krishna Director of Sub Campus Osmanabad Dr. Babasaheb Ambedkar Marathwada University Aurangabad, MS India
Presentation	Oral and Poster presentation.
List of Research Paper	Joined as Annexure-I
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

5) Organization of National Multidisciplinary Conference (Online) on "New Education Policy 2020 And Labour Laws" in A.Y. 2020-21

Total Participant	1054
College Teachers participant	18
College Student Participant	148
Total Paper / Chapter presentation	31
Chief Guest and Key Resource Personality	Hon. Waman Ji Meshram Hon'ble National President of RMBKS, India

Other Dignitaries	Hon. N.B Kurane Hon'ble General Secretary of RMBKS, India, Hon. P.L Salanki Hon'ble General Secretary of RMBKS, India, Hon. Mauji Bhai Rathod Hon'ble Treasurer of RMBKS, India,
Presentation	Oral and Poster presentation.
List of Research Paper	Joined as Annexure-I
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

6) ISBN indexed Book published on Post COVID-19 situation - a review in A.Y. 2020-21
There was saviour hit by COVID-19 to world in January 2020 to December 2020 year. It was worst experience to world as COVID-19 situation. Slowly the first-time wave was settled the situation in January 2021 onwards, there were least cases of CORONA, so an attempt was made to discuss about Post COVID-19 situations in every walk of life, especially education. The international conference was held by Anjuman Islam Janjira Degree College of Science, Murud-Janjira with joint venture of Anjuman Islam Janjira Degree College of Commerce of Shrivardhan–Raigad on 30th March 2021. Over 500 delegates registered for international e- conference about 40 research papers accepted to publish in peer team reviewed research journal while only '12' chapters were selected, edited to be part of ISBN Book to be publish as Post COVID-19 situation - a review.

7) Organization of Webinar on Alternative Energy Sources, Biodiesel and Solid Waste Management in A.Y. 2021-22

Date of Webinar	03 rd August 2021
Total Participant	95
College Teachers participant	18
College Student Participant	77
Chief Guest and Key Resource Personality	Smt. Swati Kumari Sub Regional officer, PCRA-SRO Pune
Other Dignitaries	Dr. N. S. Lingayat Head, Electrical Engineering Department, Dr. Babasaheb Ambedkar Technological University
Presentation	Oral and Poster presentation.
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

8) Organization of National Level Workshop on Intellectual Property Rights Awareness in A.Y. 2021-22

Date of Workshop	26 th November 2021
Total Participant	115
College Teachers participant	15
College Student Participant	100
Chief Guest and Key Resource Personality	Mr. Manoj G. Somkuwar M.Sc, LLB Assistant Controller of Patents and Designs. Patents Office- Mumbai, Department for Promotion Industry and Internal Trade, Ministry of Commerce & Industry, Government of India

Other Dignitaries	Hon. Ahmad Hasan Irfanshah- President Hon. Hifzurrehman S. Naziri - Gen. Secretary Hon. A. Rahim A. H Kable- Joint Gen. Secretary Hon. Altaf Husain N. Malik- Treasurer Hon. Azim H. Khanzada- President- A.I.J Halqa Majlis Hon. S. Zainuddin S.U. Kadiri- Chairman Hon. Tausif I. Fattey – Member Hon. Imran N. Malik- Member Hon. Ismail M. Shaikh- Member
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

9) Organization of International-E- Conference on Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT–2022)

Date of Conference	29 th March 2022
Total Participant	202
College Teachers participant	13
College Student Participant	100
Total Abstract published	87
Total Paper published	48
Theme of International-E- Conference	Recent Trends In Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT–2022)
Chief Guest and Key Resource Personality	Dr. Rania Lompou Director, STEM Greece, Greece Educational Advisor & Member, Ministry Education Greece
Other Dignitaries	1) Dr. Brijesh M. Sharma Virginia Commonwealth University, United States of America 2) Dr. Yusuf. H. Shaikh Dept of Physics, Shivaji Arts, Com & Sci. College, Kannad, Aurangabad 3) Dr. Rajani Panchang Dept. of Environmental Science, Savitribai Phule University, Pune 4) Dr. Balasaheb M. Gaykar Prof. Ahmadnagar College Chairman, BOS of Botany & Academic Council Member, Savitribai Phule University, Pune

10) Organization of Webinar on Alternative Energy Sources, Biodiesel and Solid Waste Management in A.Y. 2022-23

Date of Webinar	21 st January 2023
Total Participant	95
College Teachers participant	18
College Student Participant	77
Chief Guest and Key Resource Personality	Dr. N. S. Lingayat Head, Electrical Engineering Department, Dr. Babasaheb Ambedkar Technological University
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

11) Organization of National Level Webinar on Research Project Making in A.Y. 2022-23

Date of Workshop	21 st October 2022
Total Participant	50
College Teachers participant	15
Chief Guest and Key Resource Personality	Dr. Gurumeet Wadhawa Assistant Professor Rayat Shikshan Sanstha's Veer Wajekar Arts, Science and Commerce College Phunde, Uran, Dist. Raigad
Other Dignitaries	Hon. Ahmad Hasan Irfanshah- President Hon. Hifzurrehman S. Naziri - Gen. Secretary Hon. A. Rahim A. H Kable- Joint Gen. Secretary Hon. Altaf Husain N. Malik- Treasurer Hon. Azim H. Khanzada- President- A.I.J Halqa Majlis Hon. S. Zainuddin S.U. Kadiri- Chairman Hon. Tausif I. Fattey – Member Hon. Imran N. Malik- Member Hon. Ismail M. Shaikh- Member
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

12) Organization of National Level Workshop on Intellectual Property Rights Awareness in A.Y. 2022-23

Date of Workshop	2 nd February 2023
Total Participant	153
College Teachers participant	19
College Student Participant	134
Chief Guest and Key Resource Personality	Mr. Abhishek Khichar Examiner of Patents and Designs Patents Office- Mumbai, Boudhik Sampada Bhavan S.M. Road Antop Hill Mumbai
Other Dignitaries	Hon. Ahmad Hasan Irfanshah- President Hon. Hifzurrehman S. Naziri - Gen. Secretary Hon. A. Rahim A. H Kable- Joint Gen. Secretary Hon. Altaf Husain N. Malik- Treasurer Hon. Azim H. Khanzada- President- A.I.J Halqa Majlis Hon. S. Zainuddin S.U. Kadiri- Chairman Hon. Tausif I. Fattey – Member Hon. Imran N. Malik- Member Hon. Ismail M. Shaikh- Member
Expenses	Host college made expenses by its own for Research Promotions in Teaching staff and students.

13) Organization of International-E- Conference on Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT–2023)

Date of Conference	15 th March 2023
Total Participant	441
College Teachers participant	18
College Student Participant	125
Total Abstract published	114

Total Paper published	48
Theme of International-E- Conference	Recent Trends In Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT-2023)
Chief Guest and Key Resource Personality	Prof. (Dr.) Shivram S. Garje HOD Department of Chemistry University of Mumbai
Other Dignitaries	<p>1) Dr. D. R. Patil Department of Physics Rani Laxmibai Mahavidyalaya, Parola, Jalgaon</p> <p>2) Dr. Abduljalal Danbaba Faculty of Pharmaceutical Sciences, Kaduna State University (KASU), Kaduna, Nigeria</p> <p>3) Dr. Zuber Wasim Sayyad Florida Research and Innovative Centre Cleveland Clinic, Port Saint Lucie Florida, USA</p> <p>4) Dr. Irshad Mohammad Dept. of Chemistry, University of Surrey Guildford, United Kingdom</p>

14) Participation of teachers along with students in research oriented activities

Name of the Mentor	Name of Student Participant	Name of Activity	Title of paper
Dr. Sajid F. Shaikh	Ayesha Takey	International Hybrid Conference on Nano science, Nanotechnology & Nano bioscience – 2023 (ICNNN-2023)	An adulteration of Food by chemicals leading to diverse effects on human health: - its review
Mr. Shoyeab M. Khan	Sumera Kadu	International Hybrid Conference on Nano science, Nanotechnology & Nano bioscience – 2023 (ICNNN-2023)	Environment Friendly Green Approach for Synthesis of Biologically Active Benzimidazole
Mr. Tamseel S. Shahjahan	Sumayya Takey	International Hybrid Conference on Nano science, Nanotechnology & Nano bioscience – 2023 (ICNNN-2023)	Comparative study of Various Fruit Juices of their Nutritional Content
Mr. Nitin S. Pawar	Uroosa Nakhtare	International Hybrid Conference on Nano science, Nanotechnology & Nano bioscience – 2023 (ICNNN-2023)	Impact of Chemical Pollutants on Human Health
Dr. Amanulla Khan Pathan	Karbari Alfiya	University Level Research Festival DGT Shodh Vedh	Bottle Biosphere: An Innovative Idea to understanding Life
Dr. Amanulla Khan Pathan	Dakhni Fatima	University Level Research Festival DGT Shodh Vedh	Bottle Biosphere: An Innovative Idea to understanding Life
Mr. Altaf Fakir	Zhombarkar Umaymah	University Level Research Festival DGT Shodh Vedh	Algae as an Electric Conductor
Mr. Altaf Fakir	GHaltey Naureen	University Level Research Festival DGT Shodh Vedh	Algae as an Electric Conductor
Miss. Shruti Chandrashekhar Karbhari	Miss. Sonali Sudheer Singh	National E-Conference on How IOT Has Changed The World?	Smart Home Technology
Miss. Shruti Chandrashekhar Karbhari	Miss. Sonali Sudheer Singh	National E-Conference on How IOT Has Changed The World?	Research and Application on the Smart Home Based Component Technologies and Internet of

			Things
Miss. Tuba Mohd Asim Shaikh	Miss. Bismah Amjad Ulde	National E-Conference on How IOT Has Changed The World?	The Internet of Robotic Things: A Review of Concept, Added Value and Applications
Miss. Tuba Mohd Asim Shaikh	Miss. Bismah Amjad Ulde	National E-Conference on How IOT Has Changed The World?	IoT and Robotics: A Synergy
Miss. Sarah Kadu Imtiyaz	Mr. Mandlekar Mohammad Ashraf	National E-Conference on How IOT Has Changed The World?	Healthcare System using Fuzzy Neural Networks
Miss. Sarah Kadu Imtiyaz	Mr. Mandlekar Mohammad Ashraf	National E-Conference on How IOT Has Changed The World?	Security Trends in Internet of Things
Miss. Samina Sajid Mistry	Mr. Shaukat Moazzam Hamdule	National E-Conference on How IOT Has Changed The World?	Comparative Study on Hash Functions for Light- Weight Blockchain in Net of Things (IoT)
Miss. Samina Sajid Mistry	Mr. Shaukat Moazzam Hamdule	National E-Conference on How IOT Has Changed The World?	Post Blockchain Security
Miss. Samina Sajid Mistry	Miss. Mariya Zubair Ghalte	National E-Conference on How IOT Has Changed The World?	B-DRIVE: Blockchain Based Totally Distributed IoT Network for Smart Urban Transportation
Miss. Samina Sajid Mistry	Miss. Mariya Zubair Ghalte	National E-Conference on How IOT Has Changed The World?	Token Economics

15) Financial support to faculties and students for research project and participation in research oriented activities in each academic year.

Sr. No.	Financial Support Provided for	Amount
1	Participation in Research Oriented Activities in 2022-23	16400/-
2	Participation in Research Oriented Activities in 2021-22	43700/-
3	Participation in Research Oriented Activities in 2020-21	37000/-
4	Participation in Research Oriented Activities in 2019-20	24450/-
5	Participation in Research Oriented Activities in 2018-19	37950/-

6. Problems Encountered and Resources Required

During implementation of this best practice no limitations or constraints faced. This practice requires committed faculty who can involve spontaneously in research work and to help and motivate the students beyond teaching hours.

7. Notes (Optional)

8. Contact Details

Name of the Principal	Dr. Sajid F. Shaikh
Name of the Institution	Anjuman Islam Janjira Degree College of Science, Murud-Janjira
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